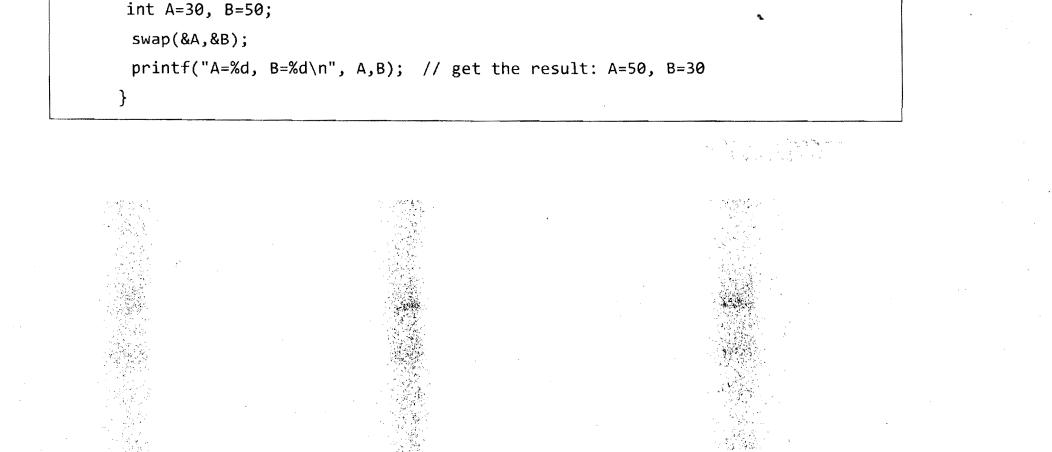
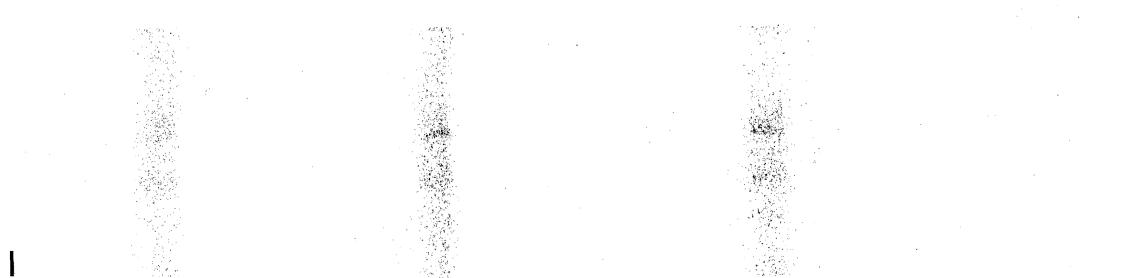
淡江大學 106 學年度日間部寒假轉學生招生考試試題 科目:程式語言 34-系別:資訊工程學系三年級 考試日期:1月6日(星期六) 第2節 本試題共 6 大題, 2 頁 1. (20%) Short Answers. (a) What are the three main features in object-oriented programming? (b) Android apps are written in what language? iOS apps are written in what language? (c) Describe what the following statement does. pLotto = (Lotto *)malloc(sizeof(struct Lotto); (d) Give an example to describe what is "call by-value", and what is call-by-reference? 2. (30%) Implement the function sum(n) = 1+2+3+...+(n-1)+n, using (a) for loop (b) while loop (c) recursion (遞迴) 3. (10%) What does the function mystery do? If n = 1234 is passed to mystery, what is the return value? int mystery(int n){ int r = 0, divisor = 1000, multiplier = 1; while (n > 10) { if (n >= divisor) { r += n / divisor * multiplier; n %= divisor; divisor /= 10; multiplier *= 10; } else divisor /= 10; } r += n * multiplier; return r; } 4. (10%) Complete the function swap (A, B) below that can exchange the values of A and B. void swap(int *pA, int *pB){ // give your code here } int main(){



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5. (10%) Write a program that can draw a ve	ertical triangle as	below.		
Enter height: 5	C			
Enter type: 1				
*				
** .				

6. (20%) Complete the code given below that ca for year is from 2017 to 2018; month is from				
1 to 60 ; second is from 1 to 60 .				
#define MAX 5				
<pre>struct Date{</pre>				
int year, month, day;				
int hour, minute, second;				
}				
<pre>void prDates(Date dates[], int N){</pre>				
}				
<pre>int main(){</pre>				
<pre>srand(time(NULL));</pre>				
Date dates[MAX];				
<pre>for(int i=0;i<max;i++){< td=""><td></td><td></td><td></td><td></td></max;i++){<></pre>				
// input data randomly				
}				
<pre>prDates(dates,MAX); return 0;</pre>				
return 0;				
}				
// Screen output 亂數輸出 5 筆				
2017/03/15 18:30:30				

2018/11/30 07:20:10 2017/12/12 18:10:00 2017/06/08 12:15:45 2018/01/10 11:27:30



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